IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

(Currently Amended) An information processing system comprising
 a program information providing apparatus for providing program information about programs,

a portable information terminal apparatus owned by a user, and an information processing apparatus having recording and reproducing functions; wherein said program information providing apparatus includes:

storing means for storing said program information; and

providing means for retrieving said program information from said storing means before providing the retrieved program information to said portable information terminal apparatus, said providing means retrieving said program information based on identifying a user IID associated with an information request transmitted from said portable information terminal apparatus.

wherein upon identifying said user ID said retrieved program information includes registered content applicable to said user ID, and

wherein said user ID is unidentifiable, said retrieved program information includes commonly watched channels;

wherein said portable information terminal apparatus includes:

3 of 29

U.S. Patent Application No. 10/085,192 Reply to Office Action dated September 18, 2008

acquiring means for acquiring said program information from said program

information providing apparatus;

establishing means for establishing preset information, when the portable

information terminal apparatus is disconnected from the program information providing

apparatus; for presetting a desired program to be recorded unattended based on said program

information acquired by said acquiring means; and

transmitting means for transmitting to said information processing apparatus said

preset information established by said establishing means; and

wherein said information processing apparatus includes:

receiving means for receiving said preset information from said portable

information terminal apparatus; and

recording controlling means for controlling the unattended recording of said

desired program based on said preset information received by said receiving means.

(Previously Presented) The information processing system according to claim 1,

wherein said program information providing apparatus further includes converting means

for retrieving said program information from said storing means before converting the retrieved

program information into data of a file format compatible with said portable information

terminal apparatus; and

wherein said providing means provides said data converted by said converting means to

said portable information terminal apparatus.

Frommer Lawrence & Haug LLP 745 Fifth Avenue New York, NY 10151 212-588-0800

4 of 29 00597856

U.S. Patent Application No. 10/085,192 Reply to Office Action dated September 18, 2008

3. (Previously Presented) The information processing system according to claim 1,

wherein said portable information terminal apparatus further includes generating means

for generating a preset signal corresponding to said preset information established by said

establishing means; and

wherein said transmitting means transmits to said information processing apparatus

infrared rays modulated to represent said preset signal generated by said generating means.

4. (Previously Presented) The information processing system according to claim 1,

wherein said portable information terminal apparatus further includes generating means

for generating a preset signal corresponding to said preset information established by said

establishing means; and

wherein said transmitting means transmits to said information processing apparatus radio

waves modulated to represent said preset signal generated by said generating means.

5. (Currently Amended) An information processing system comprising

a program information providing apparatus for providing program information about

programs,

a portable information terminal apparatus owned by a user, and

an information processing apparatus having recording and reproducing functions;

wherein said program information providing apparatus includes:

storing means for storing said program information and advertisement

information; and

Frommer Lawrence & Haug LLP 745 Fifth Avenue New York, NY 10151 212-588-0800

5 of 29 00597856

providing means for retrieving said program information and said advertisement information from said storing means before providing the retrieved information to said portable information terminal apparatus, said providing means retrieving said program information based on identifying a user ID associated with an information request transmitted from said portable information terminal apparatus,

wherein upon identifying said user ID said retrieved program information includes registered content applicable to said user ID, and

wherein said user ID is unidentifiable, said retrieved program information includes commonly watched channels;

wherein said portable information terminal apparatus includes:

acquiring means for acquiring said program information and said advertisement information sent from said program information providing apparatus;

establishing means for establishing preset information, when the portable information terminal apparatus is disconnected from the program information providing apparatus; for presetting a desired program to be recorded unattended based on said program information acquired by said acquiring means; and

transmitting means for transmitting to said information processing apparatus said preset information established by said establishing means; and

wherein said information processing apparatus includes:

receiving means for receiving said preset information from said portable information terminal apparatus; and

recording controlling means for controlling the unattended recording of said desired program based on said preset information received by said receiving means.

6. (Previously Presented) The information processing system according to claim 5,

wherein said program information providing apparatus further includes converting means for retrieving said program information and said advertisement information from said storing means before converting the retrieved information into data of a file format compatible with said portable information terminal apparatus; and

wherein said providing means provides said data converted by said converting means to said portable information terminal apparatus.

(Currently Amended) An information processing system comprising:

a portable information terminal apparatus owned by a user; and

an information processing apparatus which has recording and reproducing functions, which stores program information about programs and which is owned by said user, said information processing apparatus retrieving said program information based on identifying a user ID associated with an information request transmitted from said portable information terminal apparatus.

wherein upon identifying said user ID said retrieved program information includes registered content applicable to said user ID, and

wherein said user ID is unidentifiable, said retrieved program information includes commonly watched channels;

wherein said portable information terminal apparatus includes:

acquiring means for acquiring said program information from said information

processing apparatus;

establishing means for establishing preset information, when the portable information terminal apparatus is disconnected from the program information providing apparatus; for presetting a desired program to be recorded unattended based on said program information acquired by said acquiring means; and

transmitting means for transmitting to said information processing apparatus said preset information established by said establishing means; and

wherein said information processing apparatus includes:

receiving means for receiving said preset information sent from said portable information terminal apparatus; and

recording controlling means for controlling the unattended recording of said desired program based on said preset information received by said receiving means.

- (Previously Presented) The information processing system according to claim 7,
 wherein said acquiring means further acquires said program information sent from
 another portable information terminal apparatus.
- (Currently Amended) A portable information terminal apparatus connected to a recording/reproducing apparatus, said portable information terminal apparatus comprising:

acquiring means for acquiring program information about programs, wherein said program information is acquired based on identifying a user ID associated with an information request transmitted from said portable information terminal apparatus, and

wherein upon identifying said user ID said retrieved program information includes registered content applicable to said user ID, and

U.S. Patent Application No. 10/085,192 Reply to Office Action dated September 18, 2008

wherein said user ID is unidentifiable, said retrieved program information includes

commonly watched channels;

displaying means for displaying said program information acquired by said acquiring

means:

establishing means for establishing preset information for presetting a desired program to be recorded unattended based on an operational input made by a user referring to said program

information displayed by said displaying means;

transmitting means for transmitting to said recording/reproducing apparatus said preset

information established by said establishing means, and

registering means for registering detailed information for designating said program

information to be acquired by said acquiring means,

wherein said displaying means further displays said detailed information registered by

said registering means.

10 (Previously Presented) The portable information terminal apparatus according to claim 9.

further comprising judging means;

wherein said program information includes detailed program information associated with

advertisement information;

wherein said judging means judges whether the program information acquired by said

acquiring means is associated with said advertisement information; and

wherein, if said judging means judges that said program information is not associated

with said advertisement information, then said displaying means does not display said program

information.

Frommer Lawrence & Haug LLP 745 Fifth Avenue New York, NY 10151

212-588-0800

9 of 29

00597856

 (Previously Presented) The portable information terminal apparatus according to claim 10.

wherein said detailed program information includes either an indicator pointing to a location where further information associated with said program information exists, or information about a reference to the associated information.

 (Previously Presented) The portable information terminal apparatus according to claim 10.

wherein said advertisement information includes detailed advertisement information associated with said advertisement information; and

wherein said detailed advertisement information includes either an indicator pointing to a location where further information associated with said advertisement information exists, or information about a reference to the associated information.

 (Previously Presented) The portable information terminal apparatus according to claim 9, further comprising judging means and updating means;

wherein said program information is associated with advertisement information;
wherein said advertisement information includes time limit information denoting a time

wherein said judging means judges whether said time limit denoted by said time limit information in said advertisement information has expired; and

limit;

U.S. Patent Application No. 10/085,192 Reply to Office Action dated September 18, 2008

wherein said updating means updates said program information based on the judgment by

said judging means.

14. (Previously Presented) The portable information terminal apparatus according to claim 9,

further comprising:

storing means for storing said preset information established by said establishing means;

and

controlling means for controlling exchanges of information with said

recording/reproducing apparatus;

wherein said transmitting means transmits said preset information from said storing

means to said recording/reproducing apparatus under control of said controlling means.

(Canceled)

16. (Previously Presented) The portable information terminal apparatus according to claim 9,

wherein said detailed information includes any one of a region, a channel, and a user ID.

17. (Previously Presented) The portable information terminal apparatus according to claim 9,

wherein said registering means registers a plurality of items of said detailed information,

and

wherein said acquiring means acquires said program information corresponding to said

plurality of items of said detailed information registered by said registering means.

Frommer Lawrence & Haug LLP 745 Fifth Avenue New York, NY 10151

212-588-0800

11 of 29

00597856

450100-03799

U.S. Patent Application No. 10/085,192 Reply to Office Action dated September 18, 2008

18. (Previously Presented) The portable information terminal apparatus according to claim 9,

wherein, if said program information corresponding to said detailed information is

acquired by said acquiring means, then said displaying means further displays a predetermined

mark pointing to said detailed information.

19. (Previously Presented) The portable information terminal apparatus according to claim 9,

further comprising:

controlling means for controlling exchanges of information with said

recording/reproducing apparatus; and

receiving means which, under control of said controlling means, receives from said

recording/reproducing apparatus a message regarding preset status of said desired program as

part of said preset information transmitted from said transmitting means;

wherein said displaying means further displays a predetermined mark pointing to said

detailed information based on said message received by said receiving means.

20. (Previously Presented) The portable information terminal apparatus according to claim 9,

further comprising receiving means for receiving image data derived from conversion of said

desired program, recorded by said recording/reproducing apparatus, into a predetermined file

format:

wherein said displaying means further displays said image data received by said receiving

means.

Frommer Lawrence & Haug LLP 745 Fifth Avenue New York, NY 10151

212-588-0800

12 of 29 00597856

21. (Previously Presented) The portable information terminal apparatus according to claim 9, further comprising:

managing means for managing a schedule list in which to register what is scheduled by said user:

judging means for judging whether or not to write said preset information established by said establishing means to said schedule list managed by said managing means; and

writing means which, based on the judgment by said judging means, writes said preset information established by said establishing means to said schedule list managed by said managing means;

wherein said displaying means further displays said schedule list including said preset information written by said writing means.

- 22. (Previously Presented) The portable information terminal apparatus according to claim 9, wherein said transmitting means transmits infrared rays modulated to represent a preset signal corresponding to said preset information.
- 23. (Previously Presented) The portable information terminal apparatus according to claim 9, wherein said transmitting means transmits radio waves modulated to represent a preset signal corresponding to said preset information.
- (Previously Presented) The portable information terminal apparatus according to claim 9, wherein said transmitting means transmits said preset information over a network.

- 25. (Previously Presented) The portable information terminal apparatus according to claim 9, further comprising updating means for updating said preset information established by said establishing means.
- 26. (Currently Amended) An information processing method for use with a portable information terminal apparatus connected to a recording/reproducing apparatus, said information processing method comprising the steps of:

acquiring program information about programs, wherein said program information is acquired based on identifying a user ID associated with an information request transmitted from said portable information terminal apparatus, and

wherein upon identifying said user ID said retrieved program information includes registered content applicable to said user ID, and

wherein said user ID is unidentifiable, said retrieved program information includes commonly watched channels;

controlling display of said program information acquired in said acquiring step;
establishing preset information, when the portable information terminal apparatus is
disconnected from the program information providing apparatus, for presetting a desired
program to be recorded unattended based on an operational input made by a user referring to said
program information displayed under control of said controlling step; and

transmitting to said recording/reproducing apparatus said preset information established in said establishing step.

27. (Currently Amended) A computer-readable medium recorded therein an executable program, when executed, controlling a portable information terminal apparatus connected to a recording/reproducing apparatus, the executable program comprising the steps of:

acquiring program information about programs, wherein said program information is acquired based on identifying a user ID associated with an information request transmitted from said portable information terminal apparatus, and

wherein upon identifying said user ID said retrieved program information includes registered content applicable to said user ID, and

wherein said user ID is unidentifiable, said retrieved program information includes commonly watched channels:

controlling display of said program information acquired in said acquiring step;
establishing preset information, when the portable information terminal apparatus is
disconnected from the program information providing apparatus; for presetting a desired
program to be recorded unattended based on an operational input made by a user referring to said
program information displayed under control of said controlling step; and

transmitting to said recording/reproducing apparatus said preset information established in said establishing step.

28. (Canceled)

29. (Currently Amended) A program information providing apparatus for providing program information about programs to an information processing apparatus over a network, said program information providing apparatus comprising:

storing means for storing said program information and advertisement information;

converting means for, based on a request from said information processing apparatus,
retrieving said program information and said advertisement information from said storing means
and then converting the retrieved information into data of a predetermined format compatible
with said information processing apparatus; and

providing means for providing said data converted by said converting means to said information processing apparatus over said network, said providing means retrieving said program information based on identifying a user ID associated with an information request transmitted from said portable information terminal apparatus,

wherein upon identifying said user ID said retrieved program information includes registered content applicable to said user ID, and

wherein said user ID is unidentifiable, said retrieved program information includes commonly watched channels.

- 30. (Previously Presented) The program information providing apparatus according to claim 29, further comprising charging means for calculating a fee for inserting said advertisement information and charging said fee on a sponsor of said advertisement information.
- 31. (Previously Presented) The program information providing apparatus according to claim 29, wherein said storing means further stores user information about a user who owns said information processing apparatus.

 (Previously Presented) The program information providing apparatus according to claim 29.

wherein said program information includes detailed program information associated with said program information, and

wherein said advertisement information includes detailed advertisement information associated with said advertisement information.

 (Previously Presented) The program information providing apparatus according to claim 32.

wherein said detailed program information includes either an indicator pointing to a location where further information associated with said program information exists, or information about a reference to the associated information.

 (Previously Presented) The program information providing apparatus according to claim 32,

wherein said detailed advertisement information includes either an indicator pointing to a location where further information associated with said advertisement information exists, or information about a reference to the associated information.

 (Previously Presented) The program information providing apparatus according to claim 29.

wherein said advertisement information includes time limit information denoting a time limit.

36. (Currently Amended) A program information providing method for use with a program information providing apparatus for providing program information about programs to an information processing apparatus over a network, said program information providing method comprising the steps of:

controlling storage of said program information and advertisement information;

retrieving, based on a request from said information processing apparatus, said program information and said advertisement information from storage under control of said storage controlling step;

converting the retrieved information into data of a predetermined format compatible with said information processing apparatus; and

providing said data converted in said converting step to said information processing apparatus over said network, said providing step retrieving said program information based on identifying a user ID associated with an information request transmitted from said portable information terminal apparatus.

wherein upon identifying said user ID said retrieved program information includes registered content applicable to said user ID, and

wherein said user ID is unidentifiable, said retrieved program information includes commonly watched channels.

 (Currently Amended) A computer-readable medium, recorded therein an executable program, when executed, controlling a program information providing apparatus which provides

program information about programs to an information processing apparatus over a network, the executable program comprising the steps of:

controlling storage of said program information and advertisement information;

retrieving, based on a request from said information processing apparatus, said program information and said advertisement information from storage under control of said storage

controlling step;

converting the retrieved information into data of a predetermined format compatible with said information processing apparatus; and

providing said data converted in said converting step to said information processing apparatus over said network, said providing means retrieving said program information based on identifying a user ID associated with an information request transmitted from said portable information terminal apparatus,

wherein upon identifying said user ID said retrieved program information includes registered content applicable to said user ID, and

wherein said user ID is unidentifiable, said retrieved program information includes commonly watched channels.

38. (Canceled)

 (Currently Amended) A recording/reproducing apparatus connected to a portable information terminal apparatus, said recording/reproducing apparatus comprising:

receiving means for receiving from said portable information terminal apparatus preset information for presetting a desired program to be recorded unattended, said preset information

determined from program information received by said portable information terminal apparatus, wherein receiving said program information is based on identifying a user ID associated with an information request transmitted from said portable information terminal apparatus,

wherein upon identifying said user ID said retrieved program information includes registered content applicable to said user ID, and

wherein said user ID is unidentifiable, said retrieved program information includes commonly watched channels; and

recording controlling means for controlling the unattended recording of said desired program based on said preset information received by said receiving means[[.]],

wherein the preset information is converted to a predetermined format compatible with the recording/reproducing apparatus.

40. (Previously Presented) The recording/reproducing apparatus according to claim 39, further comprising:

converting means for converting said desired program recorded by said recording controlling means into image data of a predetermined file format in response to a request from said portable information terminal apparatus; and

transmitting means for transmitting said image data converted by said converting means to said portable information terminal apparatus.

41. (Previously Presented) The recording/reproducing apparatus according to claim 39, further comprising transmitting means for transmitting to said portable information terminal apparatus a message regarding preset status of said desired program as part of said preset

information received by said receiving means.

42. (Currently Amended) A recording/reproducing method for use with a recording/reproducing apparatus connected to a portable information terminal apparatus, said recording/reproducing method comprising the steps of:

receiving from said portable information terminal apparatus preset information for presetting a desired program to be recorded unattended, said preset information determined from program information received by said portable information terminal apparatus,

wherein receiving said program information is based on identifying a user ID associated with an information request transmitted from said portable information terminal apparatus.

wherein upon identifying said user ID said retrieved program information includes registered content applicable to said user ID, and

wherein said user ID is unidentifiable, said retrieved program information includes commonly watched channels; and

controlling the unattended recording of said desired program based on said preset information received in said receiving step,

wherein the preset information is converted to a predetermined format compatible with the recording/reproducing apparatus.

43. (Currently Amended) A computer-readable medium recorded therein an executable program, when executed, controlling a recording/reproducing apparatus connected to a portable information terminal apparatus, the executable program comprising the steps of:

receiving from said portable information terminal apparatus preset information for presetting a desired program to be recorded unattended, said preset information determined from program information received by said portable information terminal apparatus,

wherein receiving said program information is based on identifying a user IID associated with an information request transmitted from said portable information terminal apparatus.

wherein upon identifying said user ID said retrieved program information includes registered content applicable to said user ID, and

wherein said user ID is unidentifiable, said retrieved program information includes commonly watched channels; and

controlling the unattended recording of said desired program based on said preset information received in said receiving step,

wherein the preset information is converted to a predetermined format compatible with the recording/reproducing apparatus.

(Canceled)

45. (New) The information processing system according to claim 1, further comprising: convertor means for converting said program information from a page description language format to another database format that excludes tag information,

wherein said another database format comprises a less amount of data than said page description language. 46. (New) The information processing system according to claim 1, wherein said storing means comprises:

first storing means for storing said program information in a first file format; and second storing means for storing said program information in a second file format; wherein said providing means is operative to retrieve said program information from said first or second storing means based on a received request, such that,

if said request comprises a first file format then said program information is retrieved from said first storing means in said first file format, and

if said request comprises a second file format then said program information is retrieved from said second storing means in said second file format, said second file format comprising less data compared to said first file format.